

WHAT IS CLAIMED IS:

- 1                   1.     A method of manufacturing a vehicle pull handle assembly  
2 comprising:  
3                             injection molding a pull strap portion in the first shot  
4 of a two-shot molding process, wherein the pull strap portion  
5 includes a first pivot joint member; and  
6                             over-molding a base onto the pull strap portion in the  
7 second shot of the two-shot molding process, wherein the  
8 base includes a second pivot joint member which pivotally  
9 mates with said first pivot joint member but does not  
10 chemically bond with the first pivot joint member in the final  
11 molded pull handle assembly.
- 1                   2.     The method of claim 1, wherein said first pivot joint member  
2 comprises a pivot aperture and said second pivot joint member comprises a hinge  
3 pin engaged with said pivot aperture.
- 1                   3.     The method of claim 2, further comprising over-molding a  
2 soft grip material onto the pull strap portion.
- 1                   4.     The method of claim 3, further comprising forming a hollow  
2 channel in the pull strap portion by a gas assisted injection molding process.
- 1                   5.     A product manufactured by the process of claim 1.
- 1                   6.     The method of claim 1, further comprising insert-molding a  
2 spring into the pull handle assembly to pivotally bias the pull strap portion with  
3 respect to the base.
- 1                   7.     A method of manufacturing a vehicle pull handle assembly  
2 comprising:

3 injection molding a base in the first shot of a two-shot  
4 molding process; and  
5 injection molding a pull strap portion onto the base in  
6 the second shot of the two-shot molding process;  
7 wherein the pull strap portion includes a first pivot  
8 joint member and the base includes a second pivot joint  
9 member which pivotally mates with said first pivot joint  
10 member but does not chemically bond with the first pivot  
11 joint member in the final molded pull handle assembly.

1 8. The method of claim 7, wherein said first pivot joint member  
2 comprises a pivot aperture and said second pivot joint member comprises a hinge  
3 pin engaged with said pivot aperture.

1 9. The method of claim 8, further comprising over-molding a  
2 soft grip material onto the pull strap portion.

1 10. The method of claim 9, further comprising forming a hollow  
2 channel in the pull strap portion by a gas assisted injection molding process.

1 11. A product manufactured by the process of claim 7.

1 12. The method of claim 7, further comprising insert-molding a  
2 spring into the pull handle assembly to pivotally bias the pull strap portion with  
3 respect to the base.

1 13. The method of claim 7, wherein said base is injection molded  
2 with a material selected from a group of materials consisting of ABS and  
3 polypropylene, and said pull strap portion is injection molded with the non-selected  
4 member of said group.

1                   14.    A method of manufacturing a vehicle pull handle assembly  
2    comprising:  
3                                injection molding a first pull handle member, wherein  
4                   the first pull handle member includes a first pivot joint  
5                   member; and  
6                                overmolding a second pull handle member onto the  
7                   first pull handle member, wherein the second pull handle  
8                   member includes a second pivot joint member which  
9                   pivotally mates with said first pivot joint member but does  
10                  not chemically band with the first pivot joint member in the  
11                  final molded pull handle assembly.

1                   15.    The method of claim 14, wherein said first pull handle  
2    member comprises a pull strap portion and said second pull handle member  
3    comprises a base.

1                   16.    The method of claim 14, wherein said first pivot joint member  
2    comprises a pivot aperture and said second pivot joint member comprises a hinge  
3    pin engaged with said pivot aperture.

1                   17.    The method of claim 16, further comprising over-molding a  
2    soft grip material onto the pull strap portion.

1                   18.    The method of claim 17, further comprising forming a hollow  
2    channel in the pull strap portion by a gas assisted injection molding process.

1                   19.    A product manufactured by the process of claim 14.

1                   20.    The method of claim 15, further comprising insert-molding  
2    a spring into the pull handle assembly to pivotally bias the pull strap portion with  
3    respect to the base.